

hp-ux 11.0

**read before
installing or
updating to
hp-ux 11.0**



march 2002

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Welcome to HP-UX 11.0

This CD booklet outlines the contents of the HP-UX 11.0 media box, and describes features and known problems in the latest HP-UX 11.0 release.

For step-by-step instructions on how to migrate from HP-UX 10.x to HP-UX 11.0, see the *HP-UX 11.0 Installation and Update Guide*. The guide is available on the HP-UX 11.0 Instant Information CD and on the web:

`http://docs.hp.com/hpux/os/11.0`

Note The Instant Information CD in the media box has the most up-to-date version of the *HP-UX 11.0 Installation and Update Guide*.

Media Box Contents

If you receive HP-UX 11.0 as part of an update service, you get only the components that change. For new systems, the HP-UX 11.0 media box includes the following CDs and documentation:

- **HP-UX 11.0 Install/Update/Recovery CD**
Contains the HP-UX operating system and recent networking software. The Ignite-UX install tool is also included to perform cold installations on a single system from the CD. See the CD booklet for more information.
- **Core OS Options CD**
Provides software bundles to apply to a workstation or technical server.
- **Application CDs**
Delivers the latest versions of application software supported on HP-UX 11.0. All products available on the Application CD set are listed in the CD_TABLE_OF_CONTENTS file on each CD. Some applications require codeword certificates to unlock the software. To obtain certificates, follow the ordering instructions after installing the software.

- **Support Plus CD**

Provides diagnostics and current HP-UX 11.0 patch bundles to enable hardware and applications. For details, see the *Support Plus User Guide* on the CD and the *Support Plus Read Before Installing* CD booklet.

- **HP-UX Instant Information CD (IICD)**

Contains current HP-UX 11.0 guides, release notes, and white papers. See the CD booklet for more information.

- ***HP-UX 11.0 Installation and Update Guide***

Describes migrating HP 9000 systems from HP-UX 10.x to HP-UX 11.0. For the March 2002 release, the latest release is Edition 2 found on the HP-UX IICD and the web:

`http://docs.hp.com`

- ***HP-UX 11.0 Release Notes***

Describes features and functionality of HP-UX 11.0. After you migrate to HP-UX 11.0, the file is on the system in `/usr/share/doc/`. Release notes, HP-UX 11.0 guides, and many application software guides are available on the HP-UX IICD and on the web:

`http://docs.hp.com/hpux/os/11.0`

General Features in HP-UX 11.0

HP-UX 11.0 includes the following key features. For more information and other OS features, see the *HP-UX 11.0 Release Notes*.

- The Unlimited-User License, rather than the 2-User License, is automatically selected when installing from the HP-UX 11.0 Install/Update/Recovery Media. The HP-UX B.11.00 licensing, then, will be more consistent with the HP-UX B.11.11 licensing. Also, the Unlimited-User License cannot be deselected for install.

If necessary, to degrade a system to a 2-User License after installation from the HP-UX 11.0 Install/Update/Recovery Media has completed, use the 2-User Degrade bundle available for installation from the HP-UX B.11.00 Application Release media. The Unlimited-User License bundle is also available for install from this media.

- The new HP-UX 11.00 Hardware Enablement (HWE) bundle replaces the HP-UX 11.00 Hardware/Critical (HWCR) bundle on the Support Plus CD.

The new HWE bundle provides the minimal number of patches for supporting new and legacy hardware using

HP-UX 11.00. Critical patches found previously in the HWCRC bundle are now available in the Quality Pack (QPK) bundle.

- As of the September 2001 release, the General Release (GR) bundle on the Support Plus CD has been consolidated with a new Quality Pack (QPK) bundle, combining the best features of both. GR bundle users should now use the QPK bundle, located in the QPK1100 directory.
- For new user documentation, this new booklet replaces the document delivered with the previous November 1999 ACE bundle release and the December 2000 release. This new book replaces all earlier HP-UX 11.0 Readme documents.
- New Fibre Channel, HyperFabric, and PCI RS-232 MUX drivers have been added to support new mass-storage and network cards.
- The following table lists some selectable drivers. For more drivers, see the Selectable Drivers table in Chapter 1 of the *HP-UX 11.0 Installation and Update Guide*.
- Newer mass storage cards may require system firmware upgrades before connecting to boot devices. For the latest supported firmware for your system, go to the web:

`http://software.hp.com/SUPPORT_PLUS/info.html`

Table 1: Selectable Drivers

HP-UX 11.0 Selectable Drivers	Hardware
A3495A HP-PB 100BT LAN/9000	A3495A
FDDI/9000 Drivers: A3722A HSC for K- and T-Class A3723A HSC for B-, C-, D-, and J-Class A3739B PCI Media	A3722A A3723A A3739B
HyperFabric Drivers: A4919A PCI for V-Class A4920A HSC for K-Class A4921A HSC for D- and R-Class A6092A PCI for A400, A500, and L- and N-Class	A4919A A4920A A4921A A6092A
A4924A 1000Base-SX HSC Gigabit Ethernet Driver	A4924A
A4926A 1000Base-SX PCI Gigabit Ethernet Driver	A4926A
A4929A 1000Base-T PCI Gigabit Ethernet Driver	A4929A

Table 1: Selectable Drivers (Continued)

HP-UX 11.0 Selectable Drivers	Hardware
PCI Tachyon TL Fibre Channel Drivers: A5158A for A400, A500, Lx000, N4000, J6000, and V-Class systems A6795A for A400, A500, Lx000, N4000, rp54xx, and rp74xx systems	A5158A A6795A
A5783A PCI Token Ring	A5783A
A5856A PCI I20 RAID for L- and N-Class	A5856A
HSC TL Fibre Channel Drivers: A6684A for A180, and D- and R-Class A6685A for K-Class	A6684A A6685A
HyperFabric PCI/HSC Drivers: A6092A for L- and N-Class, and A400 and A500 models Note: HyperFabric2 adds networking features and also supports HP.	A6092A A6684A
PCI RS-232 MUX Software: A6748A 8 port (new) A6749A 64 port	A6748A A6749A

Table 1: Selectable Drivers (Continued)

HP-UX 11.0 Selectable Drivers	Hardware
B5509BA 100BT/9000 PCI for B-, C-, and J-Class	B5509BA
J1642AA 1000Base-SX HSC Gigabit Ethernet Driver	A4925A
J2157B FDDI/9000 for K- and T- Class (HP-PB)	J2157A
J2166B Token Ring/9000 HPPB Series 800	J2166B
100BT/9000: A5230A PCI for A-, L-, and N-Class A5506B PCI 4 port	A5230A A5506A A5506B
J3514A GSC for K- and T-Class	J3514A
J3515A GSC for B-, C-, D-, J-, and R-Class	J3515A
J3516A (dual-port) for B-, C-, D-, J-, and R-Class	J3516A

Note

FC Boot Device Limitations: Booting from a boot device connected via a Fibre Channel fabric switch is not supported. Connect the boot device directly to the system using one of the previously listed Fibre Channel cards.

HP-UX Boot Support Requirements: Systems having adapters connected to boot devices may require a PDC firmware update.

For more information about the support matrix for Fibre Channel adapters, go to the web:

<http://techsolutions.hp.com/fc/adapters.htm>

Migration Overview

The followings steps provide an overview of the migration to HP-UX 11.0. For detailed information, see the *HP-UX 11.0 Installation and Update Guide*.

1. Prepare to migrate the system.
2. Migrate to HP-UX 11.0 using cold install or update.
3. Verify the migration.
4. Back up the new system.
5. Upgrade other applications, as needed.

Menu Options

The following menu options are available for the cold install of HP-UX 11.0.

Cold Install: Basic Configuration Choices

You can select one of three choices for the basic configuration of your system:

- Default configuration
- Technical Computing configuration
- Commercial Servers configuration

Each configuration selects automatically the HWE patch bundle required for all current and new hardware, including the latest HP servers and workstations supported on HP-UX 11.00.

Technical Computing and Commercial Servers configurations also match the HP Instant Ignition options with the current patch bundles and diagnostic products recommended for new HP systems. The HP-UX 11.00 Default and Technical Computing choices still include the required November 1999 ACE bundle.

In the March 2002 release, there are no changes to the core software. For Default and Technical Computing configurations, the November 1999 ACE bundle is installed automatically. For more information on the integrated patch bundle in the November 1999 ACE bundle release, see the *Release Notes for HP-UX 11.0 Additional Core Enhancements, November 1999 (HP-UX 11.0)* on the web:

<http://docs.hp.com/hpux/os/11.0>

Note	When you insert the Support Plus media, the install tool selects automatically the HWE, QPK, and Diagnostics bundles in the same install session to eliminate extra system reboots.
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1. HP-UX 11.00 Default configuration includes the following:
 - HP-UX 11.0 Core OS software
 - Required ACE 9911 patches in the XSWGR1100 bundle
 - Hardware enablement patches in the HWE1100 bundle
 2. Technical Computing configuration includes the following:
 - HP-UX 11.0 Core OS software
 - Required ACE 9911 patches in the XSWGR1100 bundle
 - Hardware enablement patches in the HWE1100 bundle
 - Graphics software products in the B6268AA bundle
 - Recommended/critical patches in QPK1100 bundle
 - Diagnostic products with hardware monitors
 - iCOD Product, B9073AA, for N-, L-, and V-Class servers
 3. Commercial Servers configuration includes the following:
 - HP-UX 11.0 Core OS software
 - Hardware Enablement patches in HWE1100 bundle
 - Recommended/critical patches in QPK1100 bundle
 - Diagnostic products with hardware monitors
 - iCOD Product, B9073AA, for N-, L-, and V-Class servers

Software Selection

In addition to the configuration-specific software bundles that are automatically marked for installation, you can now select mass-storage and networking I/O driver products from the Software tab on the Ignite-UX install menu.

Mass-storage I/O driver products include the PCI TL/TS/XL2 Fibre Channel card (A6795A).

Networking I/O driver products include GSC/HSC, HP-PB, and PCI adapters for 100BT, Gigabit Ethernet, FDDI, and Hyperfabric LAN.

For a list of supported mass storage and network drivers, see "Meeting System Requirements" in Chapter 1 of the *HP-UX 11.0 Installation and Update Guide*.

Known Problems

- **EISA 100BT Warning Message**

When you remove an EISA 100BT product from a system or update a system having EISA 100BT to any later releases of HP-UX, you may find the following message in the

`/var/adm/sw/swagent.log` file:

Running remove setup command

`/usr/sbin/sw/remove_setup.`

`/dev/diag/ether* not found.`

This behavior occurs in the HP-UX 10.20, HP-UX 11.0, and HP-UX 11i (B.11.11) versions of this product. Presence or absence of this file on a system will not have any impact on this product. You may safely ignore this message.

- **Patch Needed Before Installing Fibre Channel Adaptor**

Before you migrate to HP-UX 11i, make sure that PHKL_23626 (or later) is included in your installation.

Download HP-UX patches from the HP IT Resource Center. See “Web Resources” on page 21.

- **Screen May Lock During Update**

When updating a system having a graphics console with Common Desktop Environment (CDE) enabled from HP-UX 10.20 to HP-UX 11.0, the screen may go blank and the system will begin beeping. This problem is caused by the screen being automatically locked by CDE after a preset idle time. To avoid this problem, turn CDE's screen lock off before entering the `swinstall` command to update to HP-UX 11.0. To turn the screen lock off, select CDE Style Manager -> Screen. Then click Screen Lock: Off and OK.

If you do not turn the screen lock off, the update will continue with the system beeping until the update is complete. You will see the Display Locked window.

- **Cold Installing over a Network?**

When you cold install HP-UX 11.0 on a disk via a Fibre-Channel network, you must select the appropriate Fibre Channel card drivers during the cold-install process. For example, you would do this if your system boots from a remote disk drive rather than a local drive. The drivers are now available on the HP-UX 11.0 Install/Update/Recovery CD. Failing to select the needed drivers will prevent your system from booting from the remote drive after cold installing HP-UX 11.0 on it.

For the drivers supplied on the HP-UX 11.0 CD, see "Meeting System Requirements" in Chapter 1 of the *HP-UX 11.0 Installation and Update Guide*.

Booting from a boot device connected via a Fibre Channel fabric switch is not supported. Connect the boot device directly to the system using one of the available Fibre Channel cards listed in "Selectable Drivers" on page 9.

- **Installing 64-bit Minimal OS**

You can now cold install the HP-UX 11.0 64-bit Minimal OS (bundle name `HPUXMinSys32/64`) from the Install/Update/Recovery CD without a problem. If you plan to install `HPUXMinSys32/64` via an Ignite-UX server, however, you will need to first edit manually the config file produced by `make_config` for the Core OS depot. In the config file, search for this line:

```
sd_software_list="HPUXMinSys64,r=B.11.00,a=HP  
UX_B.11.00_64,v=HP"
```

Change it to the following:

```
sd_software_list="HPUXMinSys64 ProgSupport.C-  
INC"
```

Web Resources

For additional help when cold installing or updating HP-UX 11.0 and related products, go to the web:

- Latest HP-UX 11.0 guides

Check for the latest revision date on the printed, CD-based, and web-based documents.

`http://docs.hp.com/hpux/os/11.0`

Recently released guides include the following:

HP-UX 11.0 Installation and Update Guide

Ignite-UX Administration Guide

Managing Systems and Workgroups

Configuring HP-UX for Peripherals

ServiceControl Manager Technical Reference

- Guides in local languages

`http://docs.hp.com`

Select Localized Documentation.

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- Latest Ignite-UX information
<http://software.hp.com/products/IUX>
<http://unix.hp.com/operating>
 - HP-UX Support Plus bundles and news
http://software.hp.com/SUPPORT_PLUS
 - HP-UX Software Transition Kit
<http://devresource.hp.com/STK>
 - Software Distributor (SD)
<http://www.hp.com/go/sd>
 - HP-UX patches and patch information
<http://itrc.hp.com>

Select the site (americas/asia pacific or european). Select the Maintenance and Support page, then select the appropriate patching tools. To receive HP Security Bulletins, select the Maintenance and Support page, then select Support Information Digests.

- LicensePower/iFOR for HP-UX
<http://www.isogon.com>

- **Nokia Activ Server**

The Nokia Activ Server 2.0 Professional Edition for HP-UX provides secure mobile device access to both internet and intranet for corporate applications such as contact information, access to back-end systems, and email. The server is certified on HP-UX 11.0 and HP-UX 11i. A 3-user, 90-day version of the Nokia Activ Server 1.1 is available for trial. For Nokia wireless solutions, go to the web:

`http://www.hp.com/communications/mobile/wapservers.html`



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